

Title (en)

TRAINING DEVICE FOR NUCLEAR POWER PLANT OPERATORS

Publication

**EP 0188861 B1 19901122 (EN)**

Application

**EP 85300549 A 19850125**

Priority

- EP 85300549 A 19850125
- US 33114181 A 19811216
- US 53432283 A 19830921

Abstract (en)

[origin: US4545766A] A simulated nuclear energy power plant system with visible internal working components comprising a reactor adapted to contain a liquid with heating elements submerged in the liquid and capable of heating the liquid to an elevated temperature, a steam generator containing water and a heat exchanger means to receive the liquid at an elevated temperature, transform the water to steam, and return the spent liquid to the reactor; a steam turbine receiving high energy steam to drive the turbine and discharging low energy steam to a condenser where the low energy steam is condensed to water which is returned to the steam generator; an electric generator driven by the turbine; indicating means to identify the physical status of the reactor and its contents; and manual and automatic controls to selectively establish normal or abnormal operating conditions in the reactor, steam generator, pressurizer, turbine, electric generator, condenser, and pumps; and to be selectively adjusted to bring the reactor to acceptable operating condition after being placed in an abnormal operation. This device is particularly useful as an education device in demonstrating nuclear reactor operations and in training operating personnel for nuclear reactor systems and also as a device for conducting research on various safety systems to improve the safety of nuclear power plants.

IPC 1-7

**G09B 9/00**

IPC 8 full level

**G09B 9/00** (2006.01)

CPC (source: EP US)

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Cited by

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DOCDB simple family (publication)

**US 4545766 A 19851008**; EP 0188861 A1 19860730; EP 0188861 B1 19901122

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